

Proposed Claim Amendments for Examiner's Amendment

Please amend the claims as follows.

1. (Currently Amended) A method for tracing an instrumented application, comprising:

loading the instrumented application object file comprising a probe into a kernel level to obtain a corresponding instrumented process;

triggering, after loading the instrumented application object file, a hook in an initialization ~~object file associated with the instrumented application~~ object file to load a helper ~~action object file~~ file into a kernel level for use by a tracing framework, wherein the initialization object file is linked to the instrumented application object file,

wherein the helper object file comprises a helper action,

wherein the helper action is a stored procedure generated using an implementation specific detail associated with the instrumented application object file for obtaining a stack trace of the instrumented process, [[and]]

wherein the helper ~~object file action~~ file is linked to the initialization object file,

wherein loading the helper object file comprises storing the helper action in a process helper data structure in the kernel level,

wherein the process helper data structure is accessible to the tracing framework;

registering the helper action with the tracing framework to associate the probe with the helper action loaded in the process helper data structure;

tracing the instrumented process using the tracing framework, wherein ~~tracing comprises triggering~~ the probe is encountered during the tracing of [[in]] the instrumented process;

~~determining, after triggering upon encountering the probe,~~ determining, by querying the process helper data structure, whether the helper action loaded in the process helper data structure is associated with the probe based on the registration of the helper action with the tracing framework;

obtaining the helper action from the process helper data structure when the helper action is associated with the probe; and
performing the helper action to obtain the stack trace of the instrumented process when the helper action is associated with the probe.

2. (Cancelled)
3. (Cancelled)
4. (Cancelled)
5. (Cancelled)
6. (Currently Amended) The method of claim [[5]] 1, wherein the process helper data structure is associated with the instrumented process.
7. (Cancelled)
8. (Cancelled)
9. (Cancelled)
10. (Cancelled)
11. (Cancelled)
12. (Cancelled)

13. (Currently Amended) A computer system, comprising:

a processor configured to:

load an instrumented application object file comprising a probe associated with an action into a kernel level to obtain a corresponding instrumented process;

load, in response to triggering a hook in an initialization file object file associated with the instrumented application object file, a helper ~~action~~ object file into the kernel level for use by a tracing framework,

wherein the initialization object file is linked to the instrumented application object file,

wherein the helper object file comprises a helper action,

wherein the helper action is a stored procedure generated using an implementation specific detail associated with the instrumented application for obtaining a stack trace of the instrumented process, [[and]]

wherein the helper ~~action~~ object file is linked to the initialization file object file,

wherein loading the helper object file comprises storing the helper action in a process helper data structure in the kernel level, and

wherein the process helper data structure is accessible to the tracing framework;

register the helper action with the tracing framework to associate the probe with the helper action loaded in the process helper data structure;

execute the tracing framework, wherein the tracing framework is configured to:

trace the instrumented process, wherein ~~tracing comprises triggering the probe is encountered during the tracing of~~ [[in]] the instrumented process;

~~determine, in response to the upon encountering the probe triggering,~~

determining, by querying the process helper data structure, whether the helper action loaded in the process helper data structure is

associated with the probe ~~based on the registration of the helper action with the tracing framework;~~
obtain the helper action from the process helper data structure when the helper action is associated with the probe; and
perform the helper action to obtain the stack trace of the instrumented process when the helper action is associated with the probe, and
a storage device configured to store the stack trace of the instrumented process.

14. (Cancelled)

15. (Original) The system of claim 13, wherein the implementation specific details comprise at least one selected from the group consisting of an instrumented application data structure and an instrumented application algorithm.

16. (Original) The system of claim 15, wherein the instrumented application data structure comprises an application stack.

17. (Original) The system of claim 16, wherein the application stack comprises at least one selected from the group consisting of an interpreter stack and a virtual machine stack.

18. (Cancelled)

19. (Cancelled)

20. (Cancelled)

21. (Cancelled)

22. (Currently Amended) The system of claim [[21]] 13, wherein the process helper data structure is associated with instrumented process.

23. (Cancelled)

24. (Previously Presented) The method of claim 1, wherein the implementation specific detail comprises at least one selected from the group consisting of an instrumented application data structure and an instrumented application algorithm.
25. (Previously Presented) The method of claim 24, wherein the instrumented application data structure comprises an application stack.

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